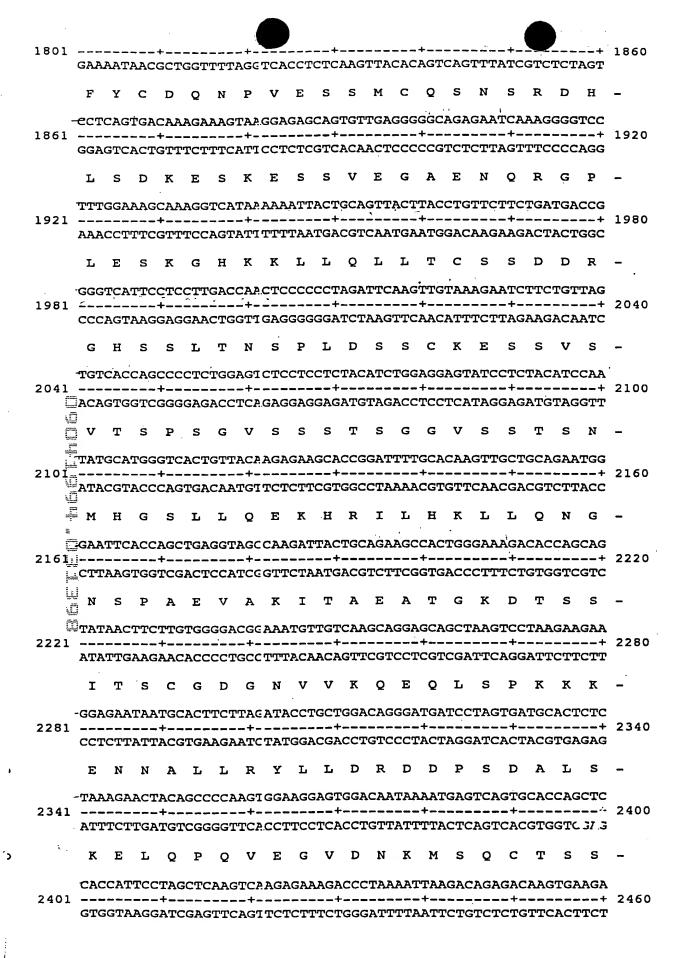
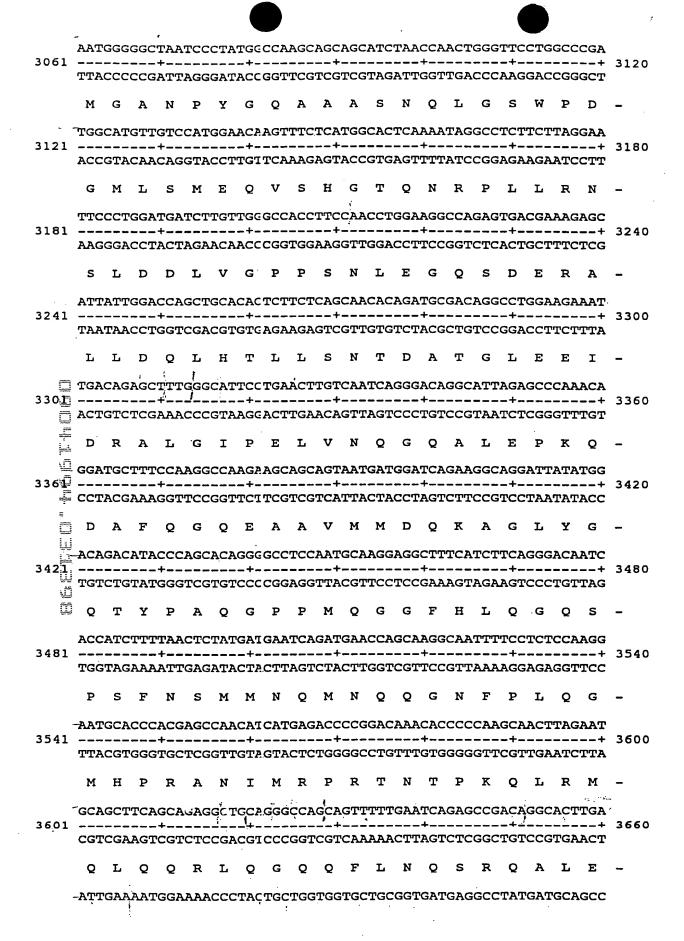
1	CGA			+		GTC	-+- rci	GGT	TAT	rrr	TAT	TTG	TGC  ACG	+ AAC	TTG	TAG	-+- GAA	ACT	GAC		60
61	AGC			+			_+-			+				+			-+-			+	120
									M	s	G	L	G	E	N	L	D	P	L	A	-
121	CAG'			+			-+-			+				+			-+-			+	180
	GTC.	ACT.	AAG'	TGC'	TTT'	TGC	GTI	TAA	CGG	TAC	ACT	ATG	AGG	TCC	TGT	TCC	AGA	ATG	GAC	GTC	
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361				+			-+-			+				+			-+- ACT			+	420
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	D	D	V	Q	K	A	D	V	S	S	T	G	Q 	G		Ι	D	K 	D	S	-
421				+			-+-			+				+			GAA -+-			+	480
	GAA	TCC	TGG	CGA	AAA	TGA	AGI	CCG	TAA	.CCI	ACC	AAA	LGGA	AATA	ACA	CCA	CTI	AGC	TCT	CCG	
	L	G	P	L	L	L	Q	A	L	D	G	F	L	F	v	V	N	R	E	A	-
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601	AAA'	rggʻ	rtt	TAG	ATG	TCA	ATI:	ACC	TCA	AAG	GAC	CTG	ттт	ACT	CTG	GGT	TTC	TGT	TTT.	TTC	
	L	P	K	s	T	v	N	G	v	, s	W	T	N	E	Т	Q	R	Q	K	s	-
661	CA'			+			_+-			+				+			-+-			+	720
	GGT.	ATG	TAA	TTA	AAC	GGC	ATA	CAA	CTA	CTT	TTG	TGG	TGT	ACT	ATA	AGA	CCT	TCT		TTT	
	H	T	F	N	С	R	M	L	M	K	_	. <b>P</b>	H	D	I	L	E	D	I	N	-
721	CGC			+			-+-			+				+			-+-			+	780
	GCG	GTC	AGG	ACT	TTA	CGC	GGI	CTC	PAT:	ACI	TTG	TTA	CGT	CAC			_	_	AGT		
	A	S	P	E	M	R	Q	R			т	M	Q	C	F	A		S 	Q	P	-
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961				-+			+-				+			-+			+-			+ CAG	1020
																				s	_
	ATO	GTO	ccz	AGA	AAC	GTC	ACT	e.TC	AAG.	AAG	CTT.	ATC:	rta.	ATG	GCC:	ATG	CAG	AAA	ccc	CAGT	ı
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١.	-CC	GAA	ATC	CTG	TAA	CAA	ATG	A.TC	GAC	ATG	GCT	TTG	TCT	CAA	ccċ	ACT	TCĊ	TTC.	AGA	GAGA	
1141		 CTT	TAG	-+- GAC	 ATT	 GTT	+ TAC	 DAI	CTG	TAC	+ CGA	AAC	 AGA	-+- GTT	 GGG	TGA	+ AGG	 AAG	TCT	+ CTC1	- 1200 :
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	ACAGAATGGATATAGACCAAACCCAAATCCTGTTGGACAAGGGATTAGACCACCTATGGC 201++ 1 TGTCTTACCTATATCTGGTTTGGGTTTAGGACAACCTGTTCCCTAATCTGGTGGATACCG														1260						
,1201		CTT.												TCC	CTA	ATC	TGG	TGG	ATA	CCG	
	Q	N	G	Y	R	P	N	P	N	P	v	G	Q	G	I	R	P	P	M	A	<u>-</u>
	TGG																				
1261	ACÇ'	TAC	GTT	+ GTC	AAG	CCA	-+- TCC	GCC	GTA	CTC.	ATA	CAG	CGG	TTT	GGT	TCC					1320
	G	С	N	s	s	v	G	G	M	s	M	s	P	N	Q	G	L	Q	M	P	-
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1321	CTC																				1380
	s	s	R	A	Y	G	L	A	D	P	s	T	T	G	Q	M	s	G	A	R	_
•	-GTA	TGG	GGG'	TTC	CAG'	TAA	CAI	AGC	TTC					GCC	AGG	CAT	GCA	ATC.	ACC.	ATC	
1381		CATACCCCAAGGTCATTGTATCGAAGTAACTGGGGACCCGGTCCGTACGTTAGTGGTAG  Y G G S S N I A S L T P G P G M Q S P S															1440				
	Y	G	G	s	s	N	I	A	s	L	T	P	G	P	G	M	Q	s	P	s	_
1441		TTCCTACCAGAACAACTATGGGCTCAACATGAGTAGCCCCCCACATGGGAGTCCTGG++++ AAGGATGGTCTTGTTGATACCCGAGTTGTACTCATCGGGGGGTGTACCCTCAGGACC															1500				
1 -	s	Y	Q	N	N	N.	Y	G	L	N	М	s	s	P	P	Н	G	s	P	G	_
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		TCTTGCCCCAAACCAGCAGAATATCATGATTTCTCCTCGTAATCGTGGGAGTCCAAAGAT ++++++++															1560				
=	L	AGAACGGGGTTTGGTCGTCTIATAGTACTAAAGAGGAGCATTAGCACCCTCAGGTTTCTA															_				
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1561	TCG	 GAG	TGT	+ AGT	CAA	AAG											-+- TAG				1620
	A	s	н	Q	F	s	P	v	A	G	v	н	s	P	М	A	s	, S	G	N	_
	TAC	TGG	GAA	CCA	CAG	CTT	TTC	CAG	CAG	CTC	TCI	CAC	TGC	CCI	GCA	ÀGC	CAT	CAG	ΤĠΑ	AGG	
1621				+			-+-			+				+			-+-			+ TCC	1680
	т	G	N	н	s	·F	s	S	s	s	·L	s	A	L	Q	A	I	s	E	G	_
	TGT	ĠĠĠ	GAC	TTC	CCT	TTT	'ATC	TAC	TCI	GTC	ATC	ACC	AGG	ccc	CAF	ATT	rgga	AAT.	CTC	TCC	
1681				+			-+-			+				+			+-			+ AGG	1740
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	G	s	G	D	L	D.	N	L	D	<b>'A</b>	I	L	G	D	L	T	s	s	D	F	-
2521	TTA			+			_+-			+				+			-+-			+	2580
	Y	N	N	s	I	s	s	N	G	s	н	L	G	T	ĸ	Q	Q	v	F	Q	_
	·AGG	AAC'	TAA!	TTC:	TCT(	GGG!	rrī	GAA	AAG	TTC	ÀCA	GTC	TGT	GCA	GTC	TAT	TCG	TCC	TCC.	ATA	
2581																	-+- AGC				2640
	G	т	N	s	L	G	L	K	s	s	Q	s	v	Q	s	r	R	P	P	Y	_
	-TAA	CCG.	ŅGC.	ĄGTO	QTC'	TCT	GGA.	ŢAG	ccc	ŢGT	ŢΤC	TGT	TGG	ÇTC	AAG	TCC	TCC	ÀGТ	AAA	AAA	
2641		GGC'	rcg	+	CAG	AGA	•										-+- AGG				2700
£	₽и	R	A	v	s	L	D	s	P	v	s	v	G	s	s	P	P	v	ĸ	N	-
2701	TAT ZATA			+		· 	_+-			+				+			-+-			+	2760
i L	D D	s	A	F	P	M	L	P	ĸ	Q	P	M	L	G	G	N	P	R	M	м	_
2761	GGA			+			-+-			+				+			-+-			+	2820
1	⊒ D	s	Q	E	N	Y	G	s	s	M	G	G	P	N	R	N	V	T	V	T	<b>-</b>
2821	TCA AGT			+			-+-			+				+						+	2880
	Q	T	P	s	s	G	D	W	G	L	P	N	s	K	A	G	R	M	E	P	-
2881				+			_+-			+				+			+-			ACC + TGG	2940
	M	N	s	N	, <b>S</b>	M	G	R	P	G	G	D	Y	N	T	s	L	P	R	P	-
2941	TGC	ACT	GGG	TGG +	CTC	TAT	TCC	CAC	'ATI	.GCC	TCI	TCC	GTC	TAA	TAG	CAT	PACC	AGG	TGC	GAG	3000
2341																				CTC	
	A	L	G	G	s	I	P	т	L	P	L	R	s	N	s	I	P	G	A	R	-
3001				+			-+-			4				+			+-			GGG + CCC	3060
	P	v	L	Q	Q	Q	Q	Q	M	L	Q	M	R	P	G	E	I	P	M	G	_



3661	TAACTTTTACCTTTTGGGATGACGACCACCACGACGCCACTACTCCGGATACTACGTCGG  L K M E N P T A G G A A V M R P M M Q P -														3720						
	L	ĸ	М	E	N	P	T	A	G	G	A	A	v	M	R	P	M	M	Q	P	-
3721	CCA  GGT			+			_+_			+				+			-+-			+	3780
	Q	Q	G	F	L	N N	A	Q	M	v	A	Q	R	s	R	E	L	L	s	H,	_
3781	TCA	CIT	CCG.	ACA.	ACA	GAG	GGI -+-	GGC	TAT	GAT	GAT	GCA	GCA	GCA +	GCA	ACA	GCA -+-	GCA	GCA	GCA	3840
	AGT	GAA	GGC	TGT'	TGT	CTC	CCA	CCG	ATA	CTA	CTA	CGT	CGT	CGT	CGT	TGT	CGT	CGT	CGT	CGT	
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3901	-CTT  GAA			+			_+-			+				+			-+-			+	3960
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3961	CAC			+			_+-			+				+			-+-			+	4020
	<u> </u>			Q	A	P	P	Q	Q	F	P	Y	Q	P	N	Y	_	. <b>м</b>	G	Q	-
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	⊨. W ο		D	P	A	F	G	R	v	s	s	P	P	N	A	М	M	s	s	R	<b>-</b> ,
	Ū ∭AA⊓	rgge	TCC	CTC	CCA	\GAA	TCC	CA	rga]	GCF	ACI	ACC	GC?	\GGC	TGC	TA	CAT	CTA	TCA	GTC	43.40
4081	TT	ACCC	AGG	GAG	GGT	CTI	'AG	GT	CT	ACGI	rTG:	rgg	GCG	rcco	ACC	TAC	GT	GAT	AGT	+ CAG	4140
	М	G	P	s	Q	N	P	M	M	Q	H	P	Q	A	A	s	I	Y	Q	s	-
414	-CTC			-+			+-				+·			-+			+-			+	4200
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420	. GC			-+			+		. <u>.</u>		+			-+			+-			+	4260
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•	Q	F	A	H	Q	G	N	P	A	V	Y	s	M	V	H	M	N	G	S	S	. <b>-</b>
426	TG:	GTC:	ACA	rggo	BAC	AGA!	rga +	A.CA	TGA	ACC	CCA'	TGC	CCA'	TGT(	CTG	GCA'	rgc(	CTA	rgge	TCC	4320
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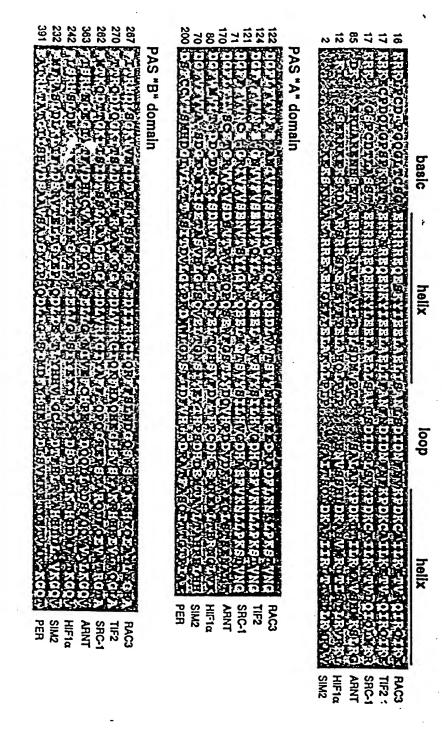
	G	H	M	G	Q	M	N	M	N	P	M	P	M	s	G	M	P	M	G	P	-
4321				+			-+-			+				+			-+-			AAA + TTT	4380
`	D	Q	K	Y	С	*															
 4381				+			-+-			4				+			-+-			GAA + CTT	4440
4441				+			-+-			1				+		TTG	-+-		- 4	495	

1401

NPMPMSGMPM GPDOKYC\*

## bHLH domain MSGLGENLDP LASDSRKRKL PCDTPGQGLT CSGEKRRREQ ESKYIEELAE 1 LISANLSDID NENVKPDKCA ILKETVRQIR QIKEQGKTIS NDDDVQKADV 51 PAS "A" domain SSTGQGVIDK DSLGPLLLQA LDGFLFVVNR EANIVFVSEN VTOYLOYKOE 101 DLVNTSVYNI LHEEDRKDFL KNLPKSTVNG VSWTNEPQRQ KSHTFNCRML 151 201 MKTPHDILED INASPEMROR YETMOCFALS OPRAMMEEGE DLOSCMICVA PAS "B" domain RRITTGERTF PSNPESFITR HDLSGKVVNI DTNSLRSSMR PGFEDIIRRC 251 IORFFSLNDG OSWSOKRHYO EAYLNGHAET PVYRFSLADG TIVTAOTKSK 301 351 LFRNPVTNDR HGFVSTHFLQ REQNGYRPNP NPVGQGIRPP MAGCNSSVGG r→RAC3.1 MSMSPNQGLQ MPSSRAYGLA DPSTTGQMSG ARYGGSSNIA SLTPGPGMQS 401 451 PSSYQNNNYG LNMSSPPHGS PGLAPNQQNI MISPRNRGSP KIASHOFSPV 501 AGVHSPMASS GNTGNHSFSS SSLSALQAIS EGVGTSLLST LSSPGPKLDN SPNMNITQPS KVSNQDSKSP LGFYCDQNPV ESSMCQSNSR DHLSDKESKE 551 601 SSVEGAENOR GPLESKGHKK LLOLLTCSSD DRGHSSLTNS PLDSSCKESS VSVTSPSGVS SSTSGGVSST SNMHGSLLQE KHRILHKLLO NGNSPAEVAK 651 ITAEATGKDT SSITSCGDGN VVKQEQLSPK KKENNALLRY LLDRDDPSDA 701 751 LSKELQPQVE GVDNKMSOCT SSTIPSSSOE KDPKIKTETS EEGSGDLDNI. 801 DAILGDUTSS DFYNNSISSN GSHLGTKQQV FQGTNSLGLK SSQSVQSIRP 851 PYNRAVSLDS PVSVGSSPPV KNISAFPMLP KQPMLGGNPR MMDSOENYGS 901 SMGGPNRNVT VTQTPSSGDW GLPNSKAGRM EPMNSNSMGR PGGDYNTSLP 951 RPALGGSIPT LPLRSNSIPG ARPVLQQQQQ MLQMRPGEIP MGMGANPYGO 1001 AAASNQLGSW PDGMLSMEQV SHGTQNRPLL RNSLDDLVGP PSNLEGOSDE V VI RALLDOUHTL LSNTDATGLE EIDRALGIPE LVNQGQALEP KQDAFOGOEA 1051 1101 AVMMDQKAGL YGQTYPAQGP PMQGGFHLQG QSPSFNSMMN QMNQQGNFPL Q-rich domain 1151 QGMHPRANIM RPRTNTPKOL RMQLQQRLQG QQFLNQSRQA LELKMENPTA **←**¬RAC3.1 GGAAVMRPMM QPQQGFLNAQ MVAQRSRELL SHHFRQQRVA MMMQQQQQQ 1201 1251 QQQQQQQQ QQQQQQQQ QAFSPPPNVT ASPSMDGLLA GPTMPQAPPO 1301 QFPYQPNYGM GQQPDPAFGR VSSPPNAMMS SRMGPSQNPM MQHPQAASIY 1351 QSSEMKGWPS GNLARNSSFS QQQFAHQGNP AVYSMVHMNG SSGHMGQMNM

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ı.
           SKGHKKLLQLLTCSSDD
SKGQTKLLQLLTTKSDD
SQTSHKLVOLLTTTAEE
                                                    RAC3
                                                              (615-631)
                                                    TIF2
                                                              (640-651)
                                                    SRC1
                                                              (632-643)
II.
           LQEKHRILHKLLQNGNSP
LKEKHKILHRLLQDSSSP
LTERHKILHRLLQEG.SP
                                                    RAC3
                                                              (678-695)
                                                    TIF2
                                                              (683-699)
                                                    SRC1
                                                              (683-699)
III.

KKKE..NNALLRYLLDRDDPSD RAC3

KKKE..NALLRYLLDKDDTKD TIF2

KKKESKDHQLLRYLLDKDE.KD SRC1
                                                              (730-749)
                                                              (738-753)
                                                             (739-757)
iv.
         DLDNLDAILGDL
                                                    RAC3
                                                              (796-807)
         ELDNLEETLDDL
DLDQFDQLLPTL
                                                    TIF2
                                                              (803-814)
                                                    SRC1
                                                              (810-821)
       EGQSDERALLDQLHTLL
ESPSDEGALLDQLYLAL
EGRNDEKALLEQLVSFL
                                                    RAC3
                                                              (1045-1061)
                                                    TIF2
                                                              (1071-1087)
                                                    SRC1 (924-940)
VI. LEEIDRALGIPELVNQ
LEEIDRALGIPELVSQ
LAELDRALGIDKLV.Q
                                                    RAC3
                                                              (1069-1084)
                                                    TIF2
                                                              (1093-1108)
                                                    SRC1
                                                              (948-962)
VII. QTPQAQQKSLLQQLUTE.
                                                    SRC1
                                                             (1424-1440)
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